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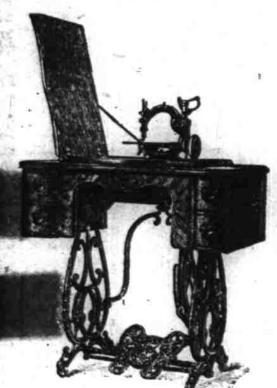
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WIDE SCOPE OF WORK DONE BY SUGAR PLANTERS

be of great importance, four separ-import field tests. ate pressings at 4740 lbs. per sq. in. results of these experiments were in-

sults obtained allowed Mr. Deerr to been variable factors. tical milling, namely:

tion on the trash bar.

train it is estimated that the prestop and back roller.

ricultural and Chemical Series.

The Heat of Combustion of Bagasse work, undertaken by Dr. R. S. Norris, was to find the thermal value of bagasse from different localities, in order to determine whether the great variation in the percentage consumption of the bagasse - produced in different factories is due to

bagasse, to avoid any effect of varia tion in sugar content. The fiber from the two most commonly cultivated! canes, Lahaina and Yellow Caledonia, from less frequently cultivated varieties like Rose Bamboo and D. 1135, and from many Hawaiian seedlings, thermal values. The fiber from cane lows: from different parts of the Islands likewise showed but little variation. From the results of all the tests it

different parts of the cane-the rind and pith, the nodes and internodes. and calculations are given of the heat fuels used in cane sugar factoriesmolasses, field trash, and crude pe-

agent in Honolulu. Of the 461 samples now the prevailing guide.

culturist. A plan was adopted by June and July.

advantage in facilitating all subse on the question of stripping. As alreached, very great decreases in the quent operations, such as planting, ready mentioned the test applied to pressure produced very small addi-fertilizing and harvesting; and serves the Striped Tip cane. The nature of

affording 81 per cent of juice, while ments under the Hawaiian system of practice. one single pressing at 11,940 lbs. per irrigation as ordinarily practiced, we | The results do not show any loss sq. in. only afforded 67.6 per cent of would have met with a field of curved from stripping, as has oftentimes juice. It was also found that the rows conforming in general to curved been the case with other varieties. finer the material the greater was and unparallel level ditches and in in fact, very slight increases in yield the quantity of juice expressed. The terspersed with short rows. To adopt were found in the stripped plots; the checker-board system of plat ex- but these gains were so trivial as to erpreted as tending to favor multiple periments to such a field would have offer nothing in support of stripping crushings at moderate pressures as presented untold difficulties. The from an economic standpoint. a more effective process than a less small plats would of necessity have been of different sizes, and owing to the "hapas," or short rows, occurring at varying intervals the width and rieties has brought out more striking-A mathematical analysis of the re- length of the rows would also have

reference to their application to prac- due consideration is was found pos- remains little question that several sible on a large portion of the avail of these varieties are superior to the (a) The pressure exerted by the able area to utilize straight and par. standard canes for early harvesting bagasse at any point in its passage allel level ditches, rows, and water on irrigated plantations. For short courses, without in any way altering ratooning purposes there are a num-(b) The power absorbed in fric- the principle of the general practice ber which give remarkable promise. of irrigation.

throughout but by dividing the area each of these blocks the purpose was and 5.12 tons from Lahaina. accomplished. The system of straight sure between the top and front roller rows admitted of each row being the was found that a decided deteriorais about 1-40 of that between the same width, and in order to avoid tion took place in a number of the an accumulation of errors in plow. most promising canes between Jann-The results of this investigation ing out these rows, Mr. Agee meas- ary (18 months old) and March. were discussed in detail by Mr. ured them off en bloc-that is, in Deerr in Bulletin No. 38, of the Ag- making five-foot rows, ten equidistant stantiate in a measure the good showstrip, and thus the inevitable errors 146, H. 25, H. 197, H. 227, H. 27, and from Hawaiian Cane.—The object of that occur in attempting to plow fur. D. 1135. They also pointed out H. tive rather than accumulative.

With this scheme as developed by Messrs. Agee and Naquin it does not matter whether or not the water courses are perpendicular to the variation in the thermal value of rows. Where they are perpendicular to the rows the plats are equal rectangles, where otherwise the plats the fiber was used in place of are parallelograms of equal area. In order to have a pathway between the plats a space six feet wide (measured with the direction of the rows) was left for each water course.

The experiments' themselves are' now under way, having been planted were tested by Dr. Norris, and but out June 17 to July 12. Their pur short rateons from an early maturing very little variation found in the pose may be briefly outlined as fol-

Experiment A. (Irrigation Test)-This embraces a comparison of irriwas concluded that the average ther. gation at 7-day, 14-day, and 28-day mal value of Hawaiian bagasse is intervals with both Lahaina and Yellow Caledonia cane. This test is more A few determinations, were made or less preliminary in character as of the thermal value of the fiber from the more thorough Trrigation experiments have been reserved for two years hence, when the additional area 'n Bulletin No. 40 the results of this will be taken over by the substation. of several hundred seedlings. These investigation are discussed in detail The test, however, should result in were examined in March, and after data of an interesting nature, not discarding the worthless ones, there of combustion that is available, which only in showing the comparative remain thirty-seven which are now constitutes the true fuel value. De vields with different periods be being grown for more severe testing. tween irrigations, but more particu- They have been numbered from H. thermal value of several subsidiary larly, from a practical standpoint, in 404 to H. 440 inclusive, offering information as to the com- | The propagation of 1912, owing to parative water requirements of our lack of space, is confined to a dozen

This experiment deals with the quest about the station plats. With the ention of when to apply dressings of larged field area now available the were from samples taken by Mr. J. nitrate of soda. It compares appli- Station will be able to extend this F. Melanphy in Honolulu; 137 from cations in March. April, May and work very materially in the future. samples forwarded from San Fran- June, together with fractional applicisco by Messrs. Curtis and Thomp- cations extending over three months. kins; 5 from samples sent by agents and fractional applications extending | The year's work along this line has

low the respective guarantees, or 7.8 The time of applying the regular mix-plowing and relaying of ditches. The per cent, indicating a rebate of \$2. ed fertilizer is no less an important hest method, most likely, will be to 53.60. This amounts to \$70.93 per matter than that of nitrate applica- select a field which is no longer to fertilizer lot on which rebate was in- tions, and it is no less a mooted ques- be continued in ratcons and harvest dicated, or \$5.54 per fertilizer lot re- tion to judge by the present differ- it during the early part of the season. ported. By fertilizer lot is meant the ence of practice. The experiment is Light furrows may be plowed along entire quality or shipment represent designed to give data of a definite the old cane rows in such manner as and reliable nature as to when to to admit of legumes being planted; at fertilize. It embraces a comparison the same time this plowing should of fertilizer applied in August and not be such as to destroy the origwork in connection fertilizer applied in March, and in- inal level ditches and water courses with the establishment of this, im- cludes a series of schemes of fertil- used for irrigating purposes. portant branch of the experimental ization whereby different proportions station was referred to in the last of the fertilizer are applied at differannual report to the committee, and enr seasons. In other words, it is I am now able to report that the new meant to determine how the greatest

tional amounts of juice. The number to minimize the chance of error in this cane led to the belief that it! of pressings, however, was found to securing accurate results in these might require stripping, even though the Lahaina and Yellow Caledonia To have arranged these experi- varieties were not benefited by the

The year's work with seedling va-It is fortunate therefore that after properties of early maturity. There (c) The actual work done in compressing the fiber, which was found to be absolutely independent of the throughout but by dividing the area in sugar per acre: 9.06, 8.19, 8.07, 7.67 way in which pressure was applied. into large blocks and employing the and 7.65 cons respectively; against (d) With settings such as are in same direction of rows throughout 6.63 on the part of Yellow Caledonia

The January results served to subrows were placed within a 50-foot ing made in 1911 by H, 20, H. 240, H. rows of an exact width are compensa- 68, H. 135, H. 205, and H. 90 (not neretofore tested) as being canes deserving further comparison.

The March results brought out very forcibly the variable qualities of the different varieties as regards mathe conclusion that it is an unsound practice to depend on a single variety more. Obviously it will prove more profitable to harvest an early maturing cane at the beginning of the season, than proceed to varieties of average maturing qualities, and end the season with a late maturing cane, or, as .Mr. Agee has pointed out, with

The work of testing and extending the seedling varieties has progressed appreciably during the year, and there are some plantations with considerable area devoted to the new varieties.

PROPAGATION OF NEW SEEDLINGS

The propagation of 1911 consisted

with requests for re-analysis; and the over four months. The practice of strengthened our previous statements balance, 74 from samples sent di- applying nitrate of soda, so universal to the effect that green manuring rectly by one plantation. Since the in these islands, varies greatly in re- may be utilized advantageously in first of the year this plantation has spect to the time of application. The connection with cane culture in these discontinued forwarding its own fer- results to be obtained from Experi- islands. At first sight it appeared tifizer samples, and shipments to this ment B will go far toward substitut, that on certain irrigated plantations plantation are being sampled by our ing definite facts where opinion is the expense of growing a rotation reported by the station, 36 fell be- Experiment C. (Fertilizer Test) - pecially if it entailed a complete re-

RECORD OF FAILURES.

cane during the season just closed. PLANTATION SUBSTATIONS (amount to \$6,926,929, or which \$2,803, or which The laying out of the Waipio ex- The large stripping substation ex- trading and \$1,251,832 in other comperiments was conducted under, the periment with the Striped Tip vari- mercial lines, Failures this week numsupervision of Mr. H. P. Agee, agri- ety at Honokaa was harvested during bered 271 in the United States against 266 last year, and 37 in Canada com-Messrs. Agee and Naquin, which. This experiment has special sig pared with 26 a year ago. - Dun's Rethough entailing extra difficulties and nificance in that in all likelihood it view.

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